XLII General Meeting

of the

American Electrochemical Society

MONTREAL, CANADA

SEPTEMBER 21, 22 and 23, 1922

LOCAL COMMITTEES

General Committee

H. W. Matheson, *Chairman*
C. R. Hazen, *Vice-Chairman*
Jerome Bell
Fred. Brown
T. R. Davidson
F. T. Kaelin
N. L. Morgan
A. R. M. MacLean
A. Neighorn
Alfred Stansfield
R. A. Witherspoon
W. B. Woodland

Golf Committee

C. R. Hazen.....*Chairman*

Excursion Committee

A. R. M. MacLean.....*Chairman*
J. W. Wales

Smoker Committee

Frederick Brown.....*Chairman*

Publicity Committee

W. B. Woodland.....*Chairman*

LADIES' COMMITTEE

Mrs. C. R. Hazen, *Chairman*
Mrs. H. W. Matheson
Mrs. J. R. Donald
Mrs. Jerome Bell
Mrs. W. B. Woodland
Mrs. A. Neighorn

GENERAL INFORMATION.

(Daylight Saving Time used exclusively in this Program.)

HEADQUARTERS.

The Headquarters will be at the Windsor Hotel, Dominion Square. Members and guests are urged to make their hotel reservations at once, if they have not already done so. A list of Montreal Hotels with their rates will be found on the last page of this booklet.

Registration will begin at 6 P.M., Wednesday, September 20, at the Windsor Hotel. The registrar will distribute badges, programs and preprints, and give other information pertaining to the meeting.

Local members of the Society of Chemical Industry, Canadian Institute of Chemistry, Engineering Institute of Canada, Canadian Institute of Mining and Metallurgy, the faculty staff of McGill University and of Montreal University (Ecole Polytechnique), are cordially invited to attend the meetings and entertainments without formal introduction. They will kindly register at the Society's desk.

Guests, after being introduced, may register and attend the sessions and the lecture Thursday evening. Other courtesies will be extended them by the Local Committee and Officers of the Society. Applicants for admission to the Society who have paid the entrance fee may register at the meeting as members and wear the member's badge.

MEETING PLACES.

The technical sessions Thursday morning and afternoon and Friday morning and afternoon will be held in the Auditorium of the Windsor Hotel.

The illustrated lecture by Professor A. S. Eve on "The New Philosophy of Physics" will be given on Thursday evening, at 8 o'clock, in Macdonald Physics Building, McGill University, within ten minutes' walk from Windsor Hotel.

The Smoker in charge of Section "Q" (Chairman, Fred. Brown) will be held in the Windsor Hotel on Friday evening.

MONTREAL AND ITS ATTRACTIONS.

From New York, Boston, and points south and east, through trains over the Delaware and Hudson, New York Central and Canadian Pacific Railways arrive at the Windsor Station, one block from the Windsor. Through train connections may also be made over the Canadian National-Grand Trunk System.

Motorists from the United States take the King Edward Highway which starts at the New York State boundary line near Rouses Point, N. Y., being a continuation of the American State Road from Florida to the boundary line.

The drives about Montreal, in the Mountain Park, around Mount Royal, and along the banks of the St. Lawrence and Ottawa Rivers, afford delightful views, unsurpassed in America.

There is one experience which no visitor should miss, and that is to "shoot" the famous Lachine rapids. These rapids are formed by the leaping of the St. Lawrence river over rocky ledges as the river descends swiftly to the level of the Montreal harbor.

At Ste. Anne de Bellevue, 25 miles from Montreal, and reached either by boat or train, is the Macdonald Agricultural College, built and equipped at a cost of over $5,000,000 and presented to McGill University.

The most interesting of all the old French buildings is the Chateau de Ramezay, named after Claude de Ramezay, the 11th Governor of Montreal, who was born in France in 1657. The Chateau de Ramezay was built as far back as 1705 as a mansion for the famous Baron de Longueuil.

On Sherbrooke Street, three blocks west of Peel Street, is one of the most beautiful buildings on the Continent—the Art Gallery of the Art Association of Montreal. It has a splendid collection of paintings and sculptures. Within a stone's throw is also McGill University, with its magnificent buildings and campus. The Redpath Museum, one of the University buildings, is well worth a visit.

SOCIAL FEATURES.

The Kanawaki and the Royal Montreal (Dixie) Golf Clubs will afford golf enthusists an opportunity to compete for the Society championship. Details of entry, time and place of contest will be posted at the registrar's desk. All golf scores, duly signed and witnessed, must be turned over to Mr. C. R. Hazen, Chairman of the Golf Committee, before six P.M. Friday.

On Friday evening an old-fashioned Smoker will be given by the local committee at the Windsor Hotel.

INDUSTRIAL PLANTS IN OR NEAR MONTREAL.

St. Lawrence Sugar Refinery Company.

Canada Cement Company.

Imperial Oil Company.

Dominion Engineering Works.

C. P. R. Angus Shops.

Members and guests intending to visit one or more of the above plants will kindly advise the local committee or registrar upon arrival at Montreal.

TRIP TO SHAWINIGAN FALLS.

There will be a special private train to Shawinigan Falls, leaving Windsor Station Friday at 11:30 at night, arriving at Shawinigan Falls at 7:30 A.M. The members will have a rare opportunity to inspect the following industrial plants:

Belgian Industrial Company.
Canada Carbide Company.
Canadian Carborundum Company.
Laurentide Power Company.
Laurentide Pulp & Paper Company.
Shawinigan Water & Power Company.

Members intending to take this trip who have not already notified the Secretary by mail are kindly requested to notify the registrar immediately upon arrival at Montreal. Information concerning the industrial visits will be obtainable at the registrar's desk.

ENTERTAINMENT FOR LADIES.

Thursday afternoon—sight-seeing trip. Details at the Registrar's desk.

Thursday evening, the ladies will attend the lecture by Professor Eve at McGill University.

Friday afternoon the ladies are invited to tea at the Golf Clubs. They are cordially invited to play golf.

For Friday evening a theatre party has been arranged.

TYPEWRITTEN DISCUSSION.

Members or guests wishing to present written discussion on any of the technical papers included in this program are kindly requested to submit three copies of the discussion of each paper to the Assistant Secretary of the Society, Columbia University, New York City, not later than September 14.

PROGRAM

WEDNESDAY, SEPTEMBER 20, 1922.

6:00 P.M. Registration begins at Windsor Hotel.

THURSDAY, SEPTEMBER 21, 1922.

10:00 A.M. Session for reading and discussion of papers.*

Norman B. Pilling: Effect of Heat Treatment on the Hardness and Microstructure of Electrolytically Deposited Iron.

R. P. Neville and J. R. Cain: The Preparation and the Mechanical Properties of Vacuum Fused Alloys of Electrolytic Iron with Carbon and Manganese.

Ralph B. Abrams: The De-zincification of Brass.

Walter G. Traub: Electroplated Zinc and the Diffusion of Electrodeposits into Zinc.

John T. Ellsworth: The Effect of Single Impurities on the Deposition of Zinc from Sulphate Solutions.

M. R. Thompson and C. T. Thomas: The Effect of Impurities in Nickel Salts Used for Electrodeposition.

Ernest A. Vuilleumier: The Application of the Contractometer to the Study of Nickel Deposition.

12:45 P.M. Adjournment.

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* All papers included in this program have been submitted to the Publication Committee.

NOTES.

1:00 P.M. Meeting of Board of Directors at Luncheon, Windsor Hotel.

2:00 P.M. Session devoted to papers and discussion on "Industrial Heating"; Bradley Stoughton, Chairman, Electrothermic Division.

Chas. P. Steinmetz: The Underlying Principles of the Industrial Heating Problem.

E. F. Collins: Electric Heat; Its Generation, Propagation and Application to Industrial Processes.

E. L. Smalley: Principles of High Temperature Furnace Design.

Wirt S. Scott: Advantages of Industrial Electric Heating.

M. A. Hunter and A. Jones: Some Electrical Properties of Alloys at High Temperatures.

C. E. Williams: Resistivities of Some Granular Resistor Carbons.

J. C. Woodson: Heat Insulating Materials for Electric Heating Apparatus.

FRIDAY, SEPTEMBER 22, 1922.

9:30 A.M. Session on "Industrial Heating"; Part II.

Frank W. Brooke: Methods of Economically Handling Materials in Electric Furnaces.

Wirt S. Scott: The Development of Industrial Electric Heating for Low Temperature Enameling.

E. L. Smalley: Firing Ceramics in Electric Furnaces.

C. B. Gibson: Electric Annealing of Malleable Iron.

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P. S. Gregory: Electric Steam Generators and their Application.

J. Murray Weed: A New Type of Induction Furnace.

A. Glynne Lobley: A Simple Electric Crucible Furnace for Melting Aluminium.

2:00 P.M. Reading and discussion of papers.

A. E. R. Westman: The Relation between Current, Voltage and the Length of Carbon Arcs.

Geo. A. Richter: Manufacture of Carbon Bisulphide.

O. C. Ralston: Electrosmosis and Electrophoresis. Two Definitions.

Alexander Lowy and Catherine M. Moore: Electrolytic Oxidation of Isoeugenol.

Alexander Lowy and Henry S. Frank: Electrolytic and Chemical Chlorination of Benzene.

C. W. Vinal and L. M. Ritchie: A New Method for Determining the Rate of Sulphation of Storage Battery Plates.

F. C. Mathers and Jacob W. H. Aldred: Preparation of Perchlorates by Heating Chlorates.

H. C. P. Weber: Changes in the Electrical Conductivity of Varnishes During Drying.

C. J. Rodman: Arc Action on Some Liquid Insulating Compounds.

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S. F. Howard and T. A. Martin: The Difference Between the Half Sum and the Square Root of the Product when Weighing by the Method of Gauss.

8:00 P.M. Smoker at Windsor Hotel.

11:30 P.M. Special Excursion to Shawinigan Falls. Train leaves Windsor Station at 11:30 P.M. The return train from Shawinigan Falls will arrive in Montreal on Saturday evening in ample time to permit members wishing to make connections for all through night trains to Toronto, Buffalo, Niagara Falls, Pittsburgh, Cincinnati, St. Louis, Chicago, New York, Boston, Philadelphia, Washington, et al.

SPRING MEETING.

The American Electrochemical Society will hold its 43rd National Convention in New York City.

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HOTELS.*

WINDSOR HOTEL (A.E.S. Headquarters):

Single room and bath....$5.00 to $ 6.00
Double room and bath.... 7.00 to 10.00

RITZ–CARLTON:

Single room and bath.....$ 6.00
Double room and bath..... 10.00

QUEEN'S HOTEL:

Single room and bath.....$ 4.00
Double room and bath..... 6.00

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* These hotels are centrally located within but a short distance of one another. All are European plan.

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OFFICERS OF THE SOCIETY

PRESIDENT

C. G. Schluederberg
Box 800, East Pittsburgh, Pa.

PAST-PRESIDENT

Acheson Smith

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SECRETARY

Colin G. Fink
Columbia University, New York City

LOCAL SECTIONS OF THE SOCIETY

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O. P. Watts, Secretary, University of Wisconsin.

Philadelphia Section

Carl Hering, Chairman, Philadelphia, Pa.
S. S. Sadtler, Secretary, Philadelphia, Pa.

New York Section

C. A. Doremus, Chairman, New York City.
H. B. Coho, Secretary, New York City.

Pittsburgh Section

Earl Blough, Chairman, New Kensington, Pa.
C. B. Gibson, Secretary-Treasurer, Pittsburgh, Pa.

Niagara Falls Section

E. M. Sergeant, Chairman, Niagara Falls, N. Y.
W. A. McKnight, Secy.-Treas., Niagara Falls, N. Y.

Entrance Fee, $5.00. (Students are exempt from paying entrance fee.) Yearly Dues, $5.00. Application blanks and any other information may be obtained from the Secretary. Each member receives the Publications of the Society, in pamphlet form, containing the papers and discussions of the General Meetings of the Society. Members can obtain the bound volumes of Transactions for an extra payment of $8.00 per year.

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